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COMPILED BY

J. P. HARDING, Ph.D.

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†*Virgiscalpellum wrighti*, *V. ryckholti*, *V. hagenowianum*, *V. gabbi*, *V. beisseli*, *V. darwinianum*, figs., WITHERS **784.**

†*Zeugmatolepas broggii*, *Z. rectibasis*, p. 205, *Z. withersi* p. 206 **spp. nov.** Cretaceous, Peru. all figd. Proc. Acad. nat. Sci. Philad. **103** 1951, PILSBRY & OLSSON **593.**

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[No record]

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Arctodiaptomus kamtschaticus **sp. nov.** Kamtchatka lake. Bull. Soc. Nat. Moscow 58 (4) 1953 : p. 47, figs., BORUTZKI 61 ; *A. kurilensis*, *A. bacillifer*, figs., KINCAID 389 ; *A. steindachneri kerkyrensis*, figs., KIEFER 386.

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Labidocera bengalensis, **sp. nov.** Madras coast. Rec. Indian Mus. 49 1952 : p. 321, figs., KRISHNASWAMY 424 ; *L. aestiva*, figs., CARVALHO 125 ; *L. pavo*, ecology, WADA 766.

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Pontellopsis pacifica **sp. nov.** Japan Sea. Bull. Jap. Soc. sci. Fish. 18 1953 : p. 691, figs., CHIBA **140.**

Pseudodiaptomus sp. from Tonkin, fig., BREHM **71 ;** *P. lobipes*, fig., *P. heterothrix* **sp. nov.** p. 305, figs. Sourate fleuve Tapti. *P. annandalei*, figs., *P. tollingerae*, figs., *P. ardjuna* **sp. nov.** p. 313, figs. Thana, Ile de Salsette. öst. zool. Z. 4 1953, BREHM **80 ;** *P. acutus*, *P. cristobalensis*, figs., CARVALHO **125.**

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Alteutha sewelli **sp. nov.** Madras plankton. J. zool. Soc. India 4 1953 : p. 173, figs., KRISHNASWAMY **425.**

Amphiascus monodi **sp. nov.** Senegal. Bull. Inst. franç. Afr. noire 14 3 p. 817, fig., MONARD **526.**

Arenopontia australis **sp. nov.** Madagascar, in beach sand. Mém. Inst. Sci. Madagascar 7A 2 1952 : p. 148, figs., CHAPPUIS **134 ;** *A. subterranea*, fig., REMANE **621.**

Attheyella (*Brehmiella*) *nordenskjöldivolgensis* **subsp. nov.** Volga at Saratov. Fauna Rossii No. 50 3 (4) 1952 : p. 278, BORUTZKI **62.**

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Cylindropsyllus remanei **sp. nov.** Heligoland. Keiler Meeresf. 6 1949 : p. 3, figs., KUNZ **434.**

Dactylopodia vulgaris forma *holsatica* **form nov.** Kieler Bucht. Zool. Anz. 151 1953 : p. 9, figs., NOODT **550.**

Darcythompsonia neglecta **sp. nov.** brackish water in Holland. Beaufortia 2 (26) p. 1, figs., REDEKE **619.**

Diarthrodes feldmanni **sp. nov.** in galleries in the seaweed *Rhodymenia* from Roscoff. Bull. Soc. zool. Fr. 78 1953 : p. 101, figs., BOCQUET **59.**

Ectinosoma oblongum **sp. nov.** Heligoland. Kieler Meeresf. 6 1949 : p. 8, figs., KUNZ **434.**

Elaphoidella coiffaiti p. 114, figs. *E. longifurcata*, p. 116, figs. **spp. nov.** Pyrenees. Notes Biospéol. 7 1952, CHAPPUIS & KIEFER **136 ;** *E. helenae* p. 357, *E. jasonis* p. 359, *E. anatolica* p. 360, **spp. nov.** Turkey. Bull. Soc. Hist. nat. Toulouse 88 1953, all figd., CHAPPUIS **133 ;** *E. ruffoi* **sp. nov.** Subterranean, N. Italy. *E. pseudophreatica*, figs. Mem. Mus. Civ. Stor. nat. Verona. 4 1953 : p. 5, figs., CHAPPUIS **135 ;** *E. bidens coronata*, figs., BREHM **81.**

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Harpacticella amurensis **sp. nov.** Amur at Dyalinda. Fauna Rossii No. 50 3 4 1952 : p. 112, BORUTZKI **62.**

Harpacticus chelifer, figs., CARVALHO **125.**

Horsiella ignava **sp. nov.** German coast, in sand. Zool. Anz. 151 1953 : p. 6, figs., NOODT **550 ;** *H. sibirica* **sp. nov.** lakes in Western Siberia. Fauna Rossii No. 50 3 (4) 1952 : p. 410, BORUTZKI **62.**

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Mesamphiascus ampullifer, **sp. nov.** mouthparts of lobsters from New Hampshire coast. J. Wash. Acad. Sci. **43** 1953 : p. 368, figs. 29–63. HUMES **326**.

Mesochra suifunensis **nov.** mouth of Suifun, Premore Land. Fauna Rossii No. 50 **3** (4) 1952 : p. 148, BORUTZKI **62**.

Microsetella norvegica, *M. rosea*, figs., CARVALHO **125** ; *M. rosea*, fig., KRISHNASWAMY **426**.

Miracia efferatia, fig., KRISHNASWAMY **426**.

Moraria catalana **sp. nov.** Pyrenees, subterranean. Notes Biospéol. **7** 1952 : p. 118, figs., CHAPPUIS & KIEFER **136** ; *M.* (*Baikalomoraria*) *brevicauda*, p. 345. *M. B. phyllura* p. 346. *M. B. longicauda* p. 348. *M. B. sinuata* p. 350. *M. B. ovicaudata* p. 353. *M. B. acuta* p. 356. **spp. nov.** L. Baikal. Fauna Rossii No. 50 **3** (4) 1952, BORUTZKI **62**.

Nannomesochra erupinensis, figs., NOODT **550**.

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Nitocra medusae, **sp. nov.** exumbrella surface of *Aurelia* sp. coast of New Hampshire. J. Wash. Acad. Sci. **43** 1953 : p. 360. figs. 1–28. HUMES **326** ; *N. fallaciosa*, figs., NOODT **550**.

Nitocrella hofmilleri **sp. nov.**, subterranean, Austria. Öst. zool. Z. **4** 1953 : p. 14, figs. 9–15, BREHM **79**.

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Paulianicarus cornifer **gen. et sp. nov.** Cylindropsyllidae Madagascar in beach sand. Mém. Inst. Sci. Madagascar **7A** 2 1952 : p. 146, figs., CHAPPUIS **134**.

Platychelipus littoralis, figs., VOS & REDEKE **763**.

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Schizopera clandestina, figs., NOODT **550** ; *S. clandestina*, figs., NOODT **550** ; *S. ornata* **sp. nov.** brackish water of Baltic coasts. Comment. biol. Helsingf. **13** 16 1953 : p. 1, figs., NOODT & PURASJOKI **551**.

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Aberdeen, p. 5, figs. *B. albidus*, figs. *B. onosi* removed to *Anchistrotus*, q.v. Beaufortia **2** No. 24, STOCK **704.**

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Corissa indica **sp. nov.** Madras coast, Rec. Indian Mus. **49** 1952 : p. 323, figs., KRISHNASWAMY **424.**

Corycaeus elongatus, *C. ovalis*, figs., CARVALHO **125.**

Cyclopicina **gen. nov.** Type species *C. longifurcata* (T. Scott 1901). Ark. Zool. **4** 1953 : p. 318, LINDBERG **462.**

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Diacyclops languidoides japonicus **subsp. nov.** subterranean, Japan. Rep. Fac. Fish. Univ. Mie **1** 1952 : p. 118, figs., ITO **335.**

Ectocyclops phaleratus, figs., THIÉBAUD **726.**

Eucyclops miurai **sp. nov.** subterranean, Japan. Rep. Fac. Fish. Univ. Mie **1** 1952 : p. 116, figs., ITO **335 ;** *E. denticulatus*, fig., THIÉBAUD **726.**

Halicyclops brevispinosus **sp. nov.** Subterranean water of Sylt. Kieler Meeresforsch. **9** 1953 : p. 104, figs., HERBST **301 ;** *H. brevispinosus meridionalis* **subsp. nov.** Subterranean waters of the Mediterranean coast of France. Kieler Meeresforsch. **9** 1953 : p. 268, figs., HERBST **302.**

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Kelleria rubimaculata **sp. nov.** Madras coast. Rec. Indian Mus. **49** 1952 : p. 326, figs., KRISHNASWAMY **424.**

Lichomolgus asterinae **sp. nov.** parasitic on *Asterina gibbosa* at Roscoff. Bull. Soc. zool. Fr. **77** 1953 : p. 498, figs., BOCQUET **58 ;** *L. agilis*, fig., STOCK **703.**

Macrocheiron (*Paramacrocheiron*) *ornatus* **sp. nov.** Madras coast. Rec. Indian Mus. **49** 1952 : p. 330, figs., KRISHNASWAMY **424.**

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Microcyclops varicans, figs., THIÉBAUD, **726.**

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†*Cytherelloidea darensis* **sp. nov.** Cretaceous, N. Carolina. Prof. Pap. U.S.

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†*Bairdriacypris* ? *rotundata* **sp. nov.** Carboniferous, Poland. Geologie Beihft. **7** 1953 : p. 17, figs., Kummerov **433.**

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†*Barychilina labyrinthea*, *B. embrithes*, *B.* sp., figs., Kesling & Weiss **382.**

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†*Carbonita minima*, *C. ovata* **spp. nov.** Carboniferous, Poland. Geologie. Beihft. **7** 1953 : p. 21, figs., Kummerow **433.**

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†*Hanacypris sarsi* **sp. nov.** Devonian, Czechoslovakia. Bull. int. Acad. Prague **53** 1953 : p. 48, figs., PŘIBYL **599.**

†*Healdia gibba* **sp. nov.** Devonian, Michigan, p. 56, figs. *H.* sp., figs. Contr. Mus. Pal. Univ. Mich. **9** 1953, KESLING & WEISS **382** ; *H. clavis* **nom. nov.** for *H. unispinosa* McLaughlin not Hamilton. J. Paleont. 27 1953 : p. 298, MCLAUGHLIN **477.**

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†*Ilyocypris turnida* **sp. nov.** Cretaceous N. Carolina. Prof. Pap. U.S. geol. Surv. **234B** 1952 : p. 70, figs., SWAIN **711.**

†*Lucasella mundula*, figs., KESLING & WEISS **382.**

†*Macrocypris minutus*, **sp. nov.** Jurassic Wyoming and S. Montana. Prof. Pap. U.S. geol. Surv. **243A** p. 9, figs., 1952, SWAIN & PETERSON **713** ; *M.* ? *silesiaca*, **sp. nov.** Carboniferous. Poland. Geologie Beihft. **7** 1953 : p. 20, figs., KUMMEROW **433.**

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†*Paracypris* sp., fig., SWAIN **711** ; *P. cf. P. franquesi*, fig., SWAIN **710.**

†*Pelocypris zilchi* **sp. nov.** Pleistocene. El Salvador. Senckenbergiana **34** 1953 : p. 1, figs., TRIEBEL **736.**

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†*Pontocypris* sp., figs., RUGGIERI **652.**

†*Poloniella tertia* **sp. nov.** Devonian Germany. Senckenbergiana **34** 1953 : p. 58, figs., KRÖMMELBEIN **427.**

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Stenocypris dolichoteca **subsp. nov.** p. 70, figs. Kenya. *S. longipoides*, figs., Res. Swed. E. Afr. Exped. 1948 Zool. No. 2 1953, LINDROTH **466** ; *S. major* (= *S. malcolmsoni*) descr. figs., TRIEBEL **737** ; *S. unguis* **sp. nov.** subterranean. Belgian Congo. Rev. Zool. Bot. afr. **47** 1953 : p. 34, figs. 1–15, ROME **637.**

†*Stibus binodosus* **sp. nov.** Devonian, Tennessee. J. Paleont. **27** 1953 p. 274, figs., SWAIN **712.**

†*Strepulites swartzi* **sp. nov.** p. 272, figs. *S. typicus*, *S. bispinosus*, *S. bifurcatus*,

S. clavatulus, figs. Devonian, Tennessee. J. Paleont. **27** 1953, SWAIN **712.**

†*Thlipsura furcoides*, figs., SWAIN **712.**

†*Thlipsurella secoclefta*, figs., SWAIN **712.**

†*Thlipsurina* **gen. nov.** p. 49 for *Thlipsura tetragona* Krause. *T. tenuis* **sp. nov.** p. 50, figs. Devonian, Germany. Geologie Beihft. **7** 1953, KUMMEROW **433.**

Triebelina bradyi, *T. sertata*, figs., KEY **383** ; *T.* sp., fig., SWAIN **710.**

CYTHERACEA

†*Actinocythereis* **gen. nov.** p. 178. Type species *Cythere exanthemata* Ulrich & Bassler. 1904. *A. exanthemata*. *A. e. marylandica*. *A. e. gomillionensis*. *A. woodwardensis*. *A. davidsbitei*. *A. gibsonensis*, *A. quinquespinosa*, *A. wechensis*, figs. Amer. Midl. Nat. **49** 1953. PURI **603.**

†*Acuticythereis* cf. *A. multipunctata*, figs., SWAIN **710.**

†*Anomocytheridea floridana*, figs., MALKIN **482.**

†*Aparchitocythere* **gen. nov.** (Cytheridae) p. 10. Type species, *A. typica* **sp. nov.** p. 10, figs. Jurassic, Wyoming and Montana. *A. loeblichorum* **sp. nov.** p. 11, figs. Jurassic, Wyoming, Montana and S. Dakota. Prof. Pap. U.S. geol. Surv. **243A** 1952, SWAIN & PETERSON **713.**

†*Apatocythere lanceolata* p. 72, *A. ? leguminoidea*, *A. ? tumidosa* p. 73, **spp. nov.** Cretaceous, N. Carolina. Prof. Pap. U.S. geol. Surv. **234B** 1952, figs., SWAIN **711.**

†*Asciocythere* **gen. nov.** p. 75, Type species, *Bythocypris rotundus* Vanderpool. *A. ? triangularis*, *A. macropunctata*, *A.? acuminata* p. 77, Cretaceous, *A.? leguminoides* p. 78, Jurassic. **spp. nov.** N. Carolina. *A. rotunda*, *A. ?* cf. *A. amygdaloides*, figs., Prof. Pap. U.S. geol. Surv. **234B** 1952, SWAIN **711.**

†*Brachycythere* cf. *B. martini*, *B. marylandica*. *B.* cf. *B. hadleyi*. *B.* cf. *B. jessupensis*, figs., SWAIN **710** ; *B. plena*, *B. striatopunctata*, figs., MUNSEY **536** ; *B. durensis*, *B. nauiformis* p. 80, **spp. nov.**, all figd. Cretaceous. N. Carolina. *B. sphenoides*, *B. arachoides*, figs. Prof. Pap. U.S. geol. Surv. **234B** 1952, SWAIN **711.**

†*Buntonia howei*. *B.* ? cf. *B.* ? *latimana*. *B.* ? *glandiculata*. *B.* ? cf. *B.* ? *gurnei*. *B.* ? *vulgaris*, figs., SWAIN **710** ; *B. giesbrechtii*. *B. radiatopora*, figs., RUGGIERI **652.**

Bythocytheré kumeni **sp. nov.** Indonesian seas. p. 164, figs. *Bythocytheré* ? sp., figs. Proc. Acad. Sci. Amst. **56B** 1953, KEY **383.**

†*Callistocythere* **sub.gen. nov.** of *Leptocythere*, type species *Cythere littoralis* Müller. G. geol. (2) 23 1953 : p. 99, RUGGIERI **652.**

†*Campocythere elliptica* **sp. nov.** Jurassic, Wyoming. Prof. Pap. U.S. geol. Surv. **243A** 1952 : p. 11, figs., SWAIN & PETERSON **713.**

†*Campylocythere laeva*, *C. laevissima*, figs., MALKIN **482.**

Caudites javana, figs., KEY **383** ; *C. jacksonvillensis* **sp. nov.** Eocene, N. Carolina. Prof. Pap. U.S. Geol. Surv. **234A** 1951 : p. 42, figs., SWAIN **710** ; *C. chipolensis* **sp. nov.** p. 177, figs. Miocene, Florida. *C. sellardsi*, figs. J. Wash. Acad. Sci. **43** 1953, PURI **605.**

†*Clithrocytheridea* cf. *C. smithvillensis*. *C. virginica*, *C.* cf. *C. caldwellensis*, *C.* cf. *C. brownsvardi*. *C.* sp., figs., SWAIN **710** ; *C. macrolaccus* **sp. nov.** Paleocene. Alabama. *C. jessipensis*, *C. alexanderi*, *C. ruida*, figs. J. Paleont. **27** 1953, MUNSEY **536** ; *C. diagonalis* p. 782, *C. virginiensis* p. 783, **spp. nov.** both figd. Miocene. Maryland. J. Paleont. **27** 1953, MALKIN **482.**

Cyprideis torosa, figs., LINDROTH **466.**

†*Cyprideis ? glabra* p. 129, figs., *C. ? rara* p. 130, figs. **spp. nov.** Chatt. Bayern. Senckenbergiana **34** 1953. GOERLICH **255** ; *C. pulchra pulchra* **subsp. nov.** Gigas-Schichten. Germany. Ber. naturf. Ges. Freiburg i. Br. **43** 1953 : p. 42, figs., STEPHAN **697** ; *C. heterostigma sublittoralis* **subsp. nov.** Pliocene. Czechoslovakia. Sborn. geol. Ust. col. **19** 1952 : p. 278, figs., POKORNY **594** ; *C. heterostigma sublittoralis*, figs., POKORNY **595.**

†*Cytherea macropora*. *C.* aff. *mulleri*, figs., TOMIĆ-DŽODŽO **731.**

Cythereiinae **subfam. nov.** p. 155, BEROUŠEK **52.**

†*Cythereis ? paralicoensis* p. 82. *C. simulonuda* p. 83. *C. quadralira* p. 84. **spp. nov.** Cretaceous, N. Carolina. all

figd. *C.* sp. aff. *C. rugosissima*, *C.* sp. aff. *C. fredericksburgensis*, *C. bicornis*, *C. ornatissima*, figd. Prof. Pap. U.S. geol. Surv. **234B** 1952, SWAIN **711** ; *C. zygoventralis* **sp. nov.** Jurassic, Wyoming. Prof. Pap. U.S. geol. Surv. **243A** 1952 : p. 14, figs., SWAIN & PETERSON **713** ; *C. dictylobus* p. 9, *C. abrarmus* p. 10, **spp. nov.** Paleocene, Alabama, both figd. *C. bassleri*, *C. prestwichiana*, *C. reticulodacyi*, figs. J. Paleont. 27 1953, MUNSEY **536** ; *C. hystria*, *C. ornata*, *C. batei*, *C. stimpsoni*, *C. haidingeri*, *C. dictyon pliocenica*, figs., RUGGIERI **652** ; *C.* sp., fig., TOMIĆ-DŽODŽO **731.**

†*Cytherella bullata*, growth stages and sexual dimorphism, SHAVER **674.**

†*Cytherera* aff. *hermesi*, fig., TOMIĆ-DŽODŽO **731.**

†*Cytheretta porcella*, *C.* ?. *sp.* aff. *C. plebeia*, *C. karlana*, figs. *C. darensis* **sp. nov.** Eocene, N. Carolina, p. 46, figs. *C. cf. C. alexanderi*, figs. Prof. Pap. U.S. Geol. Surv. **234A** 1951, SWAIN **710.**

†*Cytheridea* (*Cytheridea*) *mülleri truncatula* **subsp. nov.** p. 131, figs. Chatt, Bayern. *C.* (*C.*) *bavarica* p. 133, figs., *C.* (*C.*) *eggeri* p. 134, figs., *C.* (*C.*) *leingartensis* p. 135, figs., *C.* (*C.*) *ventricosa* p. 136, figs., *C.* (*Eucytheridea*) *reticulata* p. 137, figs. **spp. nov.** Tertiary, Germany. *C.* (*C.*) *acuminata*, figs. Senckenbergiana **34** 1953, GOERLICH **255** ; *C.* (*Cytheridea*) *mülleri*, *C.* (*C.*) *perforata*, figs., BOWEN **69** ; *C.* aff. *mülleri*, figs., TOMIĆ-DŽODŽO & VELJKOVIĆ-ZAJEK **732** ; *C. ashermani*, fig., TOMIĆ-DŽODŽO **731** ; *Cytherideis*, nomenclature of genus, SYLVESTER-BRADLEY & HARDING **715** ; *C. mayeri*, figs., *C. caledoniensis* **sp. nov.** p. 13, figs. Paleocene, Alabama. J. Paleont. **27** 1953, MUNSEY **536** ; *C. echolsae* p. 778, figs. **sp. nov.** Miocene, Maryland. *C. ashermani*, *C. subaequalis*, *C. subaequalis ulrichi*, *C. agricola*, *C. rugipustulosa*, figs. J. Paleont. **27** 1953, MALKIN **482** ; *C. subspiralis*, *C. complicata*, figs., RUGGIERI **652.**

†*Cytheromorpha scrobiculata*, figs., MUNSEY **536** ; *C.* cf. *C. warneri*, *C. curta*, *C. cf. C. eocenica*, *C.* ? sp., figs., SWAIN **710** ; *C. warneri*, figs., MALKIN **482.**

†*Cytheropteron* (*Eocytheropteron*) *tumoides* p. 86, *C.* (*E.*) *acaudatum* p. 87 **spp. nov.** Cretaceous, N. Carolina. *C.* (*E.*) *trinitiensis*, figs. Prof. Pap. U.S. geol. Surv. **234B** 1952, SWAIN **711** ; *C.* (*Cytheropteron*) *brimptoni* p. 280, *C.* (*Eocytheropteron*) *sherborni* p. 281, **spp. nov.** London Clay., both figd. Proc. Geol. Ass. Lond. **64** 1953, BOWEN **68** ; *C.* cf. *C. subreticulatum*, *C.* cf. *variosum*, *C.* sp. (a) and sp. (b), figs., SWAIN **710** ; *C. acutum*, figs., RUGGIERI **652** ; *C. hincheyi* p. 16, *C.* (*C.*) *liogluma* p. 17, **spp. nov.**, both figd. Paleocene, Alabama. J. Paleont. 27 1953, MUNSEY **536.**

†*Cytherura purireticulata* **nom. nov.** for *C. reticulata* Edwards not Lienenklaus. J. Paleont. **27** 1953 : p. 751, PURI **604** ; *C. moravica* **sp. nov.** Pliocene, Czechoslovakia. Sborn. geol. Ust col. **19** 1952 : p. 303, figs., POKORNÝ **594** ; *C. coryelli* p. 788, figs.. **sp. nov.** Miocene, Maryland. *C. forulata*, figs. J. Paleont. **27** 1953, MALKIN **482.**

†*Cytheretta burnsi*, *C. plebia*, figs., MALKIN **482** ; *C. elongata*, *C. sp.* aff. *C. washburni*, figs., SWAIN **710** ; *C. dorilaemus* p. 17, *C. oxycruris*, *C. phaseolus*, *C. boldi* p. 18, **spp. nov.**, all figd. Paleocene, Alabama. J. Paleont. 27 1953, MUNSEY **536** ; *C. incongruens perinflata* **sp. nov.** p. 118, figs. Calabrian, Italy. *C. paradoxa*, *C. alata*, figs., RUGGIERI **652** ; †*Cytherura* ? *lanceolata*, figs., SWAIN & PETERSON **713.**

†*Eocytheropteron yorktownensis* **sp. nov.** Miocene, Maryland. J. Paleont. **27** 1953 : p. 780, figs., MALKIN **482** ; ? sp., fig., SWAIN **710.**

†*Eucythere* cf. *E. chickasawhayensis*, *E.* sp., figs., SWAIN **710** ; *E. triordinis*, figs., MUNSEY **536.**

†*Eucythereis folliculosa*, figs., POKORNÝ **594.**

†*Eucytherura latebrosa*, figs., MUNSEY **536.**

†*Favella rugipunctata*, fig., MALKIN **482.**

†*Gomphocythere* ? cf. *G. silvana*, fig., SWAIN **711.**

†*Haplocytheridea leei*, *H.* sp., figs., MUNSEY **536** ; *H. subovata*, figs., MALKIN **482** ; *H. dacica dacica*, figs., *H. dacica elegantior* **subsp. nov.** p. 139, figs. Tertiary, Germany. *H. helvetica*, *H.* ? *reversa*, *H.* ? *rhombus*, figs., GOERLICH **255** ; *H.* sp. aff. *H. israelskyi*, *H. montgomeryensis*, *H.* cf. *H. veatchi*, *H.* cf. *H. wallacei*, *H.* ? cf. *H.* ? *subovata*, *H.* cf. aff. *H. hammondensis*, *H.* cf. *H. goochi*, *H.* cf. *H. nowolnyi*, *H.* cf. *H.*

hopkinsi, figs., SWAIN **710** ; *H. graysonensis*, *H. monmouthensis*, *H.* ? sp. aff. *plummeri*, figs. *H. berryi* **sp. nov.** p, 78, figs. Cretaceous, N. Carolina. Prof. Pap. U.S. geol. Surv. **234B** 1952, SWAIN **711.**

†*Hemicythere villosa*, figs., POKORNÝ **594** ; *H. punctistriata*, *H. conradi*, figs. *H. schmidtae* **sp. nov.** Miocene, Maryland, p. 796, figs. J. Paleont. **27** 1953, MALKIN **482** ; *H. scrobiculoplicata*, *H. striatopunctata*, figs., BOWEN **68.** *H. conradi*, *H. confragosa*, figs., SWAIN **710** ; *H. convexa*, figs., *H. speyeri nevianii* **subsp. nov.** Pliocene ? Italy, p. 89, figs. *H. polyptyca*, *H.* (*Urocythereis*) *margaritifera*, figs. G. geol. (2) **23** 1953, RUGGIERI **652** ; *H.* emendation of genus, BEROUŠEK **52** ; *H. howei* **sp. nov.** p. 176, figs. Miocene, Florida. *H. laevicula*, *H. conradi*, *H. confragosa*, *H. amygdala*, figs. J. Wash. Acad. Sci. **43** 1953. PURI **605.**

†*Hemicytherea* sp., fig., TOMIČ-DŽODŽO & VELJKOVIČ-ZAJEK **732.**

Hemicytherura videns, figs., RUGGIERI **650** ; *H. videns*, figs. *H. gracilicosta* **subsp. nov.** p. 50, figs. Pleistocene, Italy. *H. defiorei* **sp. nov.** p. 50, figs. Miocene, Italy. Atti. Soc. ital. Sci. nat. **92** 1953, RUGGIERI **650.**

†*Hutsonia* ? *microrugosa* **sp. nov.** Cretaceous, N. Carolina. Prof. Pap. U.S. geol. Surv. **234B** 1952 : p. 88, figs., SWAIN **711.**

Iliocythere meyer-abichi **sp. nov.** San Salvador, brackish water. Zool. Anz. **151** 1953 : p. 310, figs., HARTMANN **290.**

Kangarina abyssicola, figs., RUGGIERI **650.**

†*Kangarina abyssicola coarctata* **subsp. nov.** Miocene, Italy. Atti. Soc. ital. Sci. nat. **92** 1953 : p. 53, figs., RUGGIERI **650.**

†*Krithe* cf. *K. postprojecta*, fig., SWAIN **711** ; *K. droogeri* **sp. nov.** Indonesian seas. Proc. Acad. Sci. Amst. **56B** 1953 : p. 159, figs., KEY **383.**

†*Leguminocythereis parallelokladia* **sp. nov.** Paleocene, Alabama. J. Paleont. **27** 1953 : p. 12, figs., MUNSEY **536** ; *L.* cf. *L. scarabaeus*, *L. clarkana*, figs. *L. whitei* **sp. nov.** Oligocene-Pleistocene, N. Carolina p. 43, figs. Prof. Pap. U.S. Geol. Surv. **234A** 1951, SWAIN **710** ; *L. whitei*, figs., MALKIN **482.**

Leptocythere lacertosa, figs., DULK **193.**

†*Leptocythere imlayi*, figs., SWAIN & PETERSON **713** ; *L. tenera*, *L. bacescoi*, *L.* (*Callistocythere*) **subgen. nov.** p. 99. Type species : *Cythere littoralis* Müller. *L.* (*C.*) *rastrifera* **sp. nov.** Quaternary, Italy, p. 100, figs. *L.* (*C.*) *pallida*, fig. G. geol. (2) **23** 1953, RUGGIERI **652** ; *L. nodigera* p. 299, figs., *L. moravica* p. 300, figs. **spp. nov.** Pliocene, Czechoslovakia. *L. lacunosa*, *L.* sp., figs. Sborn. geol. Ust. col. **19** 1952, POKORNÝ **594.**

Limnocythere africana, figs. *L. africana* minor **subsp. nov.** p. 115, figs. Res. Swed. E. Afr. Exped. 1948, Zool. No. 2 1953, LINDROTH **466.**

Loxoconcha baltica, figs., DULK **193** ; *L. alata* var. *longispina* **var. nov.** Indonesian seas. Proc. Acad. Sci. Amst. **56B** 1953 : p. 160, figs., KEY **383.**

†*Loxoconcha purisubrhomboidea* **nom. nov.** for *L. subrhomboidea* Edwards not Brady. J. Paleont. **27** 1953 : p. 750, PURI **604** ; *L. notoaulax* **sp. nov.** p. 16, figs. Paleocene, Alabama. *L. corrugata*, figs. J. Paleont. **27** 1953, MUNSEY **536** ; *L. hodonica* p. 308, figs. *L. rhombovalis* p. 310, figs. **spp. nov.** Pliocene, Czechoslovakia. *L. granifera*, figs. Sborn. geol. Ust. col. **19** 1952, POKORNÝ **594** ; *L. reticularis*, figs., MALKIN **482** ; *L. subrhomboidea*, *L. edentonensis* **sp. nov.** Miocene, N. Carolina, p. 26, *L.* cf. *L. mcbeanensis*, *L.* sp. aff. *L. claibornensis*. *L.* cf. *L. creolensis*, *L.* cf. *L. surreala*, all figd. Prof. Pap. U.S. geol. Surv. **234A** 1951, SWAIN **710.**

†*Macrodentina* ? *obliqua* **sp. nov.** Cretaceous, N. Carolina. Proc. U.S. geol. Surv. **234B** 1952 : p. 89, figs., SWAIN **711.**

†*Microxestoleberis westmorelandi*, **sp. nov.** Paleocene, Alabama. J. Paleont. **27** 1953 : p. 19, figs., MUNSEY **536.**

†*Monoceratina biphysa* **sp. nov.** Paleocene, Alabama. J. Paleont. **27** 1953 : p. 17, figs., MUNSEY **536** ; *M. sundanciensis*, figs., SWAIN & PETERSON **713** ; *M.* sp. aff. *M. semiornata*, figs., SWAIN **711** ; *M. cooperi* **sp. nov.** Devoniain, Tennessee. J. Paleont. **27** 1953 : p. 283, figs., SWAIN **712** ; *M.* cf. *M. M*

harrisi, fig., SWAIN **710** ; *M.* sp., figs., RUGGIERI **652.**

Neomonoceratina columbiformis, figs., KEY **383.**

†*Occultocythereis bituberculata*, fig., RUGGIERI **652.**

†*Paijenborchella malayensis*, fig., RUGGIERI **652** ; *P.* (*Neomonoceratina*) *mediterranea* **sp. nov.** Recent, Port Said. Atti. Soc. ital. Sci. nat. **92** 1953 : p. 11, figs., RUGGIERI **651.**

†*Paracyprideis triebeli* p. 144, figs. *P. punctata* p. 145, fig. **spp. nov.** Tertiary, Germany. Senckenbergiana **34** 1953, GOERLICH **255.**

†*Paracytheridea nodosa*, *P.* ? *wetterellii*, figs., SWAIN **710** ; *P. vandenboldi* **nom. nov.** for *Cytheropteron nodosum* Ulrich & Bassler not Brady. J. Paleont. **27** 1953 : p. 751, PURI **604** ; *P. similis* **sp. nov.** p. 781, figs. Miocene, Maryland. *P. vandenboldi*, *P. shattucki*, figs. J. Paleont, **27** 1953, MALKIN **482.**

Payenborchella iocosa, *P. malaiensis*, figs., KEY **383.**

†*Platycythereis concellosa*, figs., MUNSEY **536.**

†*Procythereis calhounensis*, figs., PURI **605.**

†*Progonocythere hieroglyphica*, *P. crowcreekensis*, figs., SWAIN & PETERSON **713.**

†*Protocythere paratriplicata*, **sp. nov.** Cretaceous, N. Carolina. Prof. Pap. U.S. geol. Surv. **234B** 1952 : p. 85, figs., SWAIN **711** ; *P. quadricarinata* **sp. nov.** Jurassic, Wyoming and Montana. Prof. Pap. U.S. geol. Surv. **243A** 1952 : p. 13, figs., SWAIN & PETERSON **713.**

†*Pterygocythereis americana*, figs., MALKIN **482** ; *P.* cf. *P. tokiana*, figs., SWAIN **711** ; *P. washingtonensis* **sp. nov.** Eocene, N. Carolina. Prof. Pap. U.S. geol. Surv. **234A** 1951 : p. 41, fig., SWAIN **710.**

†*Schuleridea hatterasensis*, *S.* ? *lacustris*, p. 74, *S.* cf. *S. pentagonalis*, *S.* cf. *S. acuminata*, figs., SWAIN **711.**

†*Toulminia* **gen. nov.** p. 6, Cytherinae, for type species *T. hyalokystis* **sp. nov.** Paleocene, Alabama. J. Paleont. **27** 1953 : p. 7, figs., MUNSEY **536.**

†*Trachyleberidea* **gen. nov.** Type species : *Cythereis prestwichiana* Jones & Sherborn. Proc. Geol. Ass. Lond. **64** 1953 : p. 285, figs., BOWEN **68.**

Trachyleberis scabrocuneata, Brady's type species described and figured. *T. litteltonensis* **sp. nov.** p. 4, figs. New Zealand. Bull. Brit. Mus. (nat. Hist.) Zool. **2** 1 1953, HARDING & SYLVESTER-BRADLEY **285.**

†*Trachyleberis enborni*, figs., BOWEN **68** ; *T.* (?) *quadrataspinata*, *T.* (?) *rosefieldensis*, *T.* (?) *montgomeryensis*, *T.* (?) *thomsoni*, *T.* (?) *grigsbyi*, *T.* (?) *dacyi*, *T.* (?) *splendens*, *T.* (?) *smithvillensis*, *T.* (?) *linospinosa*, *T.* (?) *bahamensis*, figs., PURI **603** ; *T.* (?) *quadrataspinata*, *T.* (?) *rosefieldensis T. montgomeryensis*, *T.* (?) *thomsoni*, *T.* (?) *grigsbyi*, *T.* (?) *dacyi*, *T.* (?) *splendens*, *T.* (?) *smithvillensis*, *T.* (?) *linospinosa*, *T.* (?) *bahamensis*, figs., PURI **603** ; *T. evax*, fig., *T. rosetta* **sp. nov.** Miocene, N. Carolina p. 28, figs. *T* ? *martini*, *T.* ? cf. *T. micula*, *T.* ? cf. *T.* ? *angulata*, *T.* ? cf. *T.* ? *reesidei*, *T.* ? *rukasi*, *T.* ? *sp.* aff. *T.* ? *communis aquia*. *T. hilgardi*, *T. stenzeli*, *T. davidwhitei*, *T.* ? *pellucinoda*, *T.* ? *bassleri*, *T. smithvillensis*, figs., *T. mundorff* **sp. nov.** Miocene, N. Carolina p. 36, figs., *T. pidgeoni*, *T.* ? cf. *T.* ? *triplisbriata*, *T. exanthemata*, *T. vaughani*, *T.* ? *rugipunctata*, figs. Prof. Pap. U.S. geol. Surv. **234A** 1951, SWAIN **710** ; *T. radiata* **sp. nov.** Miocene, Maryland p. 791, figs. *T. exanthemata*, *T. exanthemata gomillionensis*, *T. clarkana*, *T. evax*, *T. martini*, *T. vaughani*, figs., MALKIN **482.**

†*Xestoleberis* cf. *X. longissima*, fig. *X.* ? *ventrosbriata* **sp. nov.** Miocene, N. Carolina, p. 18, figs. Prof. Pap. U.S. geol. Surv. **234A** 1951, SWAIN **710** ; *X. margaritea*, *X. decipiens*, figs., RUGGIERI **652.**

PALEOCOPA

BEYRICHIACEA

†*Acrossula* **gen. nov.** p. 41. Type species : *A. v-scripta* n.sp. [sic], *A. rugosa*, *A. u-scripta* **spp. nov.** p. 42, both figd. Devonian, Tattenberg. (Piretellidae). Geologie Beihft. **7** 1953, KUMMEROW **433.**

Aechmina spp. A. and B. *A. choanobasota*, figs., KESLING & WEISS **382** ;

A. phantastica **sp. nov.** Devonian, Ontario, p. 3, figs. *A.* sp. cf. *A. choanobasota*, *A.* sp. figs. Contr. Mus. Pal. Univ. Mich. **10** 1953, KESLING **375.**

†*Aechminaria hormathota* **sp. nov.** Devonian, Michigan p. 3, figs. *A.* sp. cf. *A. hormathota*, figs. Contr. Mus. Pal. Univ. Mich. **10** 1953, KESLING **375.**

†*Amphissites lunatus*, figs., SWAIN **712 ;** *A. robustus flabelluli* **nom. nov.** for *A. r. radiatus* McLaughlin not Jones & Kirky. J. Paleont. **27** 1953 : p. 298, MCLAUGHLIN **477 ;** *A. decoratus* p. 46, *A. deltoidens* p. 47, *A. inornatus* p. 47, *A. corrensi* p. 48 **spp. nov.** Devonian, Eastern Europe. Geologie. Beihft. **7** 1953, KUMMEROW **433.**

†*Arcyzona aperticarinata* **sp. nov.** p. 51, figs. Devonian, Michigan. *A. diademata*, *A.* sp., figs. Contr. Mus. Pal. Univ. Mich. **9** 1953, KESLING & WEISS **382.**

†*Basslerites cf. B. miocenicus*, *B.* cf. *B. gigantreus*, figs., SWAIN **710.**

†*Beyrichia latispinosa* **sp. nov.** Devonian, Czechoslovakia. Bull. int. Acad. Prague **52** 1953 : p. 21, figs., PŘIBYL **599 ;** *B. fossulata* p. 34, *B. semicircularis* p. 35, *B. mammilata*, *B. favaria* p. 36. *B. foveatula*, *B. rugulosa* p. 37, *B.* ? *thuringica* p. 38, **spp. nov.** Devonian, Eastern Europe, all figd. Geologie Beihft. **7** 1953, KUMMEROW **433.**

†Beyrichiida **ord. nov.** p. 231, POKORNÝ **595.**

†*Beyrichiopsinae* **subfam. nov.** of Kloedenellidae. Norsk. geol. Tids. **31** 1953 : p. 244, figs., HENNINGSMOEN **299.**

†*Bolbina* **gen. nov.** Type species : *Bollia ornata* Krause. Norsk. geol. Tids. **31** 1953 : p. 208, figs., HENNINGSMOEN **299 ;** *B. variolaris*, fig., HENNINGSMOEN **298.**

†*Bollia planojugosa*, *B. ungulata*, *B. tribolbina*, *B. obesoides*, figs. *B. ungulata* var. *bassleri* p. 268, figs. *B. u.* var. *depressa* p. 268, figs. **var. nov.** Devonian, Tennessee. J. Paleont. **27** 1953, SWAIN **712 ;** *B. u-scripta* **sp. nov.** Devonian, Germany. Geologie Beihft. **7** 1953 : p. 31, figs., KUMMEROW **433 ;** *B. ventrinodosa* **sp. nov.** Devonian, Czechoslovakia. Bull. int. Acad. Prague **52** 1953 : p. 28, figs. PŘIBYL **599.**

†*Boučekites* **gen. nov.** p. 31, Aparchitidae or Acronotellidae. *B. devonicus* **sp. nov.** the type species p. 34, figs. Devonian, Czechoslovakia. Bull. int. Acad. Prague **52** 1953, PŘIBYL **599.**

†*Boursella trilobata*, figs., KESLING **376.**

†*Cardiniferella bowsheri*, **gen. et sp. nov.** new family near Kirkbyidae. Carboniferous of Texas. J. Wash. Acad. Sci. **43** 1953 : p. 66, figs., SOHN **692.**

†Cardiniferellidae, **fam. nov.** J. Wash. Acad. Sci. **43** p. 66, SOHN **692.**

†*Carinobolbina* **gen. nov.** Sigmoopsidae. Type species : *Ctenobolbina estona* Opik. Norsk. geol. Tids. **31** 1953 : p. 205, figs., HENNINGSMOEN **299.**

†*Ceratopsis* sp., figs. *C.* ? *stoermeri* **sp. nov.** Ordovician, Norway. Norsk. geol. Tidskr. **32** 1953 : p. 42, figs., HENNINGSMOEN **298 ;** *C. devonicus* **sp. nov.** Devonian, Germany. Geologie. Beihft. **7** 1953 : p. 39, figs., KUMMEROW **433.**

†*Coelonella scapha*, figs., KESLING & WEISS **382.**

†*Cornigella immotipedata* **sp. nov.** Devonian, Ontario. Contr. Mus. Pal. Univ. Mich. **10** 1953 : p. 200, figs., KESLING **376.**

†*Ctenobolbina megalia*, figs., KESLING & TABOR **381.**

†*Ctenobolbinella* **gen. nov.** Type species, *C. carinata* **sp. nov.** Devonian, Tattenberg. Geologie, Beihft. **7** 1953 : p. 39, figs., KUMMEROW **433.**

†*Ctenoloculina thliberilonata* p. 204, *C. acanthina* p. 206, *C. platyzanclota* p. 208, **spp. nov.** Devonian, Ontario, all figd. *C. eurybathrata*, figs. Contr. Mus. Pal. Univ. Mich. **10** 1953, KESLING **377 ;** *C. cicatricosa*, figs., KESLING & WEISS **382 ;** *C. eurybathrota*, figs., KESLING & TABOR **381.**

†*Dizygopleura concentrica* p. 43, *D. claviformis* p. 44, *D. elongata* p. 44, *D. cuneata* p. 45 **spp. nov.,** all figd. Devonian, Eastern Europe. Geologie Beihft. **7** 1953, KUMMEROW **433 ;** *D. euglyphea*, figs., KESLING & WEISS **382.**

†*Drepanellina bohemica* **sp. nov.** Devonian, Czechoslovakia. Bull. int.

Acad. Prague **52** 1953 : p. 30, figs., PŘIBYL **599.**

†*Eukloedenella doverensis*, figs., KESLING & WEISS **382 ;** *E. cuneata* **sp. nov.** Devonian, Eastern Europe. Geologie Beihft. **7** 1953 : p. 43, figs., KUMMEROW **433.**

†*Euprimites ? suecica*, figs., HENNINGSMOEN **298.**

†*Euprimitra eifliensis* **sp. nov.** Devonian, Germany. Geologie Beihft. **7** 1953 : p. 29, figs., KUMMEROW **433.**

†*Falsipollex equipapillatus* **sp. nov.** Devonian, Michigan. Contr. Mus. Pal, Univ. Mich. **9** 1953 : p. 44, figs., KESLING & WEISS **382 ;** *F. minimus* p. 92, *F. bulbosus* p. 93, **spp. nov.,** both figd. *F.* sp., figs. Devonian, Michigan. Contr. Mus. Geol. Univ. Mich. **10** 1953, KESLING & TABOR **381 ;** *F. valgus*, figs., KESLING **377.**

†*Glossopsiinae* **subfam. nov.** of Sigmoopsidae. Norsk. geol. Tids. **31** 1953 : p. 201, HENNINGSMOEN **299.**

†*Glyptopleura bipunctata* **sp. nov.** Devonian, Michigan. Contr. Mus. Pal. Univ. Mich. **9** 1953 : p. 54, figs., KESLING & WEISS **382.**

†*Graphiodactylus* sp. aff. *lineatus*, *G.* ? sp., figs., SWAIN **712.**

†*Halliella bellipunctata*, figs., KESLING & WEISS **382 ;** *H. rhenana*, *H. hercynica*, **spp. nov.** Devonian, Germany. Geologie Beihft. **7** 1953 : p. 30, figs., KUMMEROW **433.**

†*Haploprimitia* cf. *holladayi*, fig., PŘIBYL **599.**

†*Healdia camdenensis*, figs., SWAIN **712.**

†*Hesslandella* **gen. nov.** Type species : *Ctenentoma macroreticulata* Hessland. Norsk. geol. Tids. **31** 1953 : p. 215 pl. 1 fig. 1, HENNINGSMOEN **299.**

Hibbardia **gen. nov.** Beyrichiidae. Type species, *Amphissites lacrimosus* Swartz & Oriel. Bull. Buffalo Soc. nat. Sci. **21** 2 1953 : p. 19, figs., KESLING **374.**

†*Hollina pyxidata*, figs., KESLING **377.**

†*Hollinella labrosa* p. 35, *H. ampla* p. 38, *H. tendilobata* p. 39, *H. inclinisulcata* p. 40, **spp. nov.** Devonian, Michigan. *H.* spp. A. and B., figs. Contr. Mus. Pal. Univ. Mich. **9** 1953, KESLING & WEISS **382.**

†*Hollinella senticosa* **sp. nov.** Devonian, Ontario, p. 211, figs. *H. pumila*, figs. Contr. Mus. Pal. Univ. Mich. **10** 1953, KESLING **377 ;** *H. amblilobata* p. 84, figs., *H. segrandis* p. 84, figs. *H. cuspibulbata* p. 85, figs. *H. plauta* p. 86, figs. **spp. nov.** Devonian, Michigan. Contr. Mus. Geol. Univ. Mich. **10** 1953, KESLING & TABOR **381 ;** *H. dissimilis* **sp. nov.** Pennsylvanian, Kansas, 399, figs. *H. gibbosa*, figs. J. Paleont. **27** 1953, TASCH **718 ;** *H. hamata*, *H. mammilata* p. 40, *H. debilis* p. 41 **spp. nov.,** all figd. Devonian, Eastern Europe. Geologie Beihft. **7** 1953, *H.* sp., figs., KUMMEROW **433.**

†*Jenningsina scalpta* **sp. nov.** p. 63, figs. Devonian, Michigan. *J. catenulata*, figs. Contr. Mus. Pal. Univ. Mich. **9** 1953, KESLING & WEISS **382.**

†*Jonesina silesiaca* **sp. nov.** Carboniferous, Poland. Geologie Beihft. **7** 1953 : p. 14, figs., KUMMEROW **433 ;** *J. polonica* **sp. nov.** Devonian, Poland. Geologie Beihft. **7** 1953 : p. 45, figs., KUMMEROW **433.**

†*Kellettina nebeni* **sp. nov.** Carboniferous, Poland. Geologie Beihft. **7** 1953 : p. 12, figs., KUMMEROW **433.**

†*Kirkbya nodosa* **sp. nov.** Devonian, Germany. Geologie Beihft. **7** 1953 : p. 46, figs., KUMMEROW **433.**

†*Kloedenia onusta*, *K. thuringica* **spp. nov.** Devonian, Germany. Geologie Beihft. **7** 1953 : p. 33, figs., KUMMEROV **433.**

†*Krausella* sp., figs., KUMMEROW **433.**

†*Leiprimitia pisciformis*, figs., KUMMEROW **433.**

†*Leptoprimitia* **gen. nov.** for *L. compressa* **sp. nov.** the type species p. 31, fig., *L. circumvallata*, p. 32, figs., **sp. nov.** *L. plana*, figs. Devonian, Germany & Poland. Geologie Beihft. **7** 1953, KUMMEROW **433.**

†*Limnoprimitia* **gen. nov.,** type species. *Beyrichia arcuata* Bean. *L. arcuata*, figs. Geologie Beihft. **7** 1953 : p. 15, figs., KUMMEROW **433.**

†*Macronotella ? semicircularis* **sp. nov.** Devonian, Gondelsheim. Geologie Beihft. **7** 1953 : p. 48, figs., KUMMEROW **433.**

†*Microcheilina amaliae* p. 59, *M. clava* p. 60, *M. seminalis* p. 60, *M. ovata* p. 61, **spp. nov.** Devonian, Eastern Europe,

all figd. Geologie Beihft. 7 1953, KUMMEROW **433.**

†*Monoceratina casei*, figs., KESLING & WEISS **382** ; *M.* spp. A. and B., figs., KEY **383.**

†*Moorea circumvallata* **sp. nov.** Devonian, Germany. Geologie Beihft. 7 1953 : p. 49, figs., KUMMEROW **433.**

†*Neobeyrichiopsis emporiensis* **gen. et sp. nov.** Pennsylvanian, Texas, near Beyrichiopsis. J. Paleont. 27 1953 : p. 401, figs., TASCH **718.**

†Paleocopa **suborder nov.** for the Beyrichiacea and Leperditacea. Norsk. geol. Tids. 31 1953 : p. 188, HENNINGSMOEN **299.**

†*Parabolbina acinia* **sp. nov.** Devonian, Michigan. Contr. Mus. Pal. Univ. Mich. 9 1953 : p. 43, figs., KESLING & WEISS **382** ; *P. auricularis* descr., figs., HENNINGSMOEN **299** ; *P. lepercula* p. 88. *P. axypages* p. 89. **spp. nov.** Devonian, Michigan, all figd. Contr. Mus. Geol. Univ. Mich. 10 1953, KESLING & TABOR **381.**

†*Phipsonaspis ochiporensis* **gen. et sp. nov.** Devonian, Michigan. Contr. Mus. Pal. Univ. Mich. 10 1953 : p. 222, figs., KESLING **378.**

†*Piraeus* **gen. nov.** p. 43, for *P. dowi* **sp. nov.** p. 44, figs. Ordovician, Norway. Intermediate between Tetradellinae and *Piredella*. Norsk. geol. Tidskr. 32 1953, HENNINGSMOEN **298.**

†*Platybolbina* **nom. nov.** for *Plagiobolbina* THORSLUND. Norsk. geol. Tidskr. 32 1953 : p. 50. *P. raptoni*, fig., HENNINGSMOEN **298.**

†*Polygnathiscus zurichi* p. 54, figs. *P. gunnerui* p. 56, figs. **spp. nov.** Devonian, Germany. Senckenbergiana 34 1953, KRUMMELBEIN **427.**

†*Primitia fulgens* **sp. nov.** Devonian, Germany. Geologie Beihft. 7 1953 : p. 28, figs., KUMMEROW **433** ; *P. sumera*, figs., HENNINGSMOEN **298.**

†*Primitiella* cf. *P. norvegica*, figs. *P.* ? *varioplicata* **sp. nov.** p. 264, figs. Devonian, Tennessee. J. Paleont. 27 1953, SWAIN **712** ; *P.* ? *spongiae* **sp. nov.** Ordovician, Sweden. Geol. Foren. Stockh. Förh. 75 1953 : p. 341, figs., LINDSTRÖM **467** ; *P.* ? *sinuata* **sp. nov.** Devonian, Germany. Geologie Beihft. 7 1953 : p. 27, figs., KUMMEROW **433.**

†*Pseudoprimitia subangulata*, figs., KESLING & WEISS **382.**

†Quadriguardiidae **fam. nov.**, KESLING & HUSSEY **380.**

†*Quadriguardia* **gen. nov.** p. 79, in new family of Beyrichiacea. Type species : *Beyrichia germanicus* FRESSE, 1917. *Q. ornatissima*, *Q. reticulata*, figs. Contr. Mus. Pal. Univ. Mich. 10 1953, KESLING & HUSSEY **380.**

†*Quadrilobis gibbosus* **sp. nov.** p. 51, figs. Devonian, Michigan. *Q. ornatus*, *Q. lineatus*, *Q. elongatus*, *Q.* cf. *Q. ornatus*, *Q. obliquus*, figs. Contr. Mus. Pal. Univ. Mich. 9 1953, KESLING & WEISS **382.**

Ranasedites pennatus, *R. ammonoides*, figs., SWAIN **712.**

†*Rhinoma* p. 71 **gen. nov.** for type species, *R. ammonoides* **sp. nov.** p. 72, figs. Devonian, Michigan. Near Knightonia. Contr. Mus. Pal. Univ. Mich. 9 1953, KESLING & WEISS **382.**

†*Rigidella mitis*, figs., HENNINGSMOEN **299.**

†*Ruticulum bacculatum* **gen. et sp. nov.** Devonian, Michigan. Near *Hollinella* and *Falsipollex*. Contr. Mus. Pal. Univ. Mich. 9 1953 : p. 47, figs., KESLING & WEISS **382.**

†*Sigmabolbina* **gen. nov.** Type species : *Eulomis oblonga* STEUSLOFF var. *hukersiana* BONNEMA. Norsk. geol. Tids. 31 1953 : p. 206, figs., HENNINGSMOEN **299.**

†Sigmoopsidae **fam. nov.** Norsk. geol. Tids. 31 1953 : p. 201, HENNINGSMOEN **299.**

†*Sigmoopsis* **gen. nov.** Type species : *Ceratopsis grapensis* OPIK. Norsk. geol. Tids. 31 1953 : p. 204, figs., HENNINGSMOEN **299.**

†*Sigmus sinuosus* **gen. et sp. nov.** Ambocoeliidae. Devonian, Germany. Contr. Mus. Pal. Univ. Mich. 10 1953 : p. 4, figs., KESLING **375.**

†*Stenolibis norvegica*, figs., HENNINGSMOEN **298.**

†*Stipinaspidium pulchrum*, p. 45. *S. horridogenum* p. 46 **spp. nov.** Devonian, Michigan. Contr. Mus. Pal. Univ. Mich. 9 1953, KESLING & WEISS **382** ; *S. granulosum* **sp. nov.** Devonian, Michigan. Contr. Mus. Geol. Univ. Mich. 10 1953 : p. 95.

figs., KESLING & TABOR **381** ; *S. calcaratum* **sp. nov.** Devonian, Ontario, p. 209, figs. ? *S.* sp., figs. Contr. Mus. Pal. Univ. Mich. **10** 1953, KESLING **377.**

†*Svarogites* **gen. nov.** Kirkbyidae, p. 24, *S. spinosus* **sp. nov.** the type species, p. 26, figs. Devonian, Czechoslovakia. Bull. int. Acad. Prague **52** 1953, PŘIBYL **599.**

†*Tallinnella trident* p. 37, *T. tumida* p. 38, *T. mjoensis* p. 39, *T. kiaeri* p. 40, **spp. nov.,** all figd. Ordovician, Norway. Norsk. geol. Tidskr. **32** 1953, HENNINGSMOEN **298** ; *T. dimorpha*, fig., POKORNY **595.**

Tetradella sp. cf. *T. quadrilirata*, figs., KESLING & HUSSEY **380** ; *T. latecostata* **sp. nov.** Devonian, Eastern Europe. Geologie Beihft. **7** 1953 : p. 38, figs., KUMMEROW **433.**

†*Tetrasacculus paeneloculatus* **sp. nov.** Devonian, Michigan. Contr. Mus. Pal. Univ. Mich. **9** 1953 : p. 42, figs., KESLING & WEISS **382** ; *T. magnivelatus*, figs., KESLING **377** ; *T. magnivelatus*, figs., KESLING & TABOR **381.**

†*Tetrastorthynx* **gen. nov.** p. 195, *T. diabolicus* **sp. nov.,** the type species p. 196. Devonian, Ontario. Contr. Mus. Pal. Univ. Mich. **10** 1953, KESLING **376.**

†*Thlipsurina elongata*, figs., SWAIN **712.**

†*Tmemolophus margarotus* **gen. et. sp. nov.** Derpanellidae. Devonian, Ontario. Contr. Mus. Pal. Univ. Mich. **10** 1953 : p. 194, pl. 1 figs. 1–6, KESLING **376.**

†*Ullerella triplicata* p. 46, *U. ventroplicata* p. 47, **spp. nov.** Ordovician, Norway. *U. ulli*, *U. holtedahli*, figs. Norsk. geol. Tidskr. **32** 1953, HENNINGSMOEN **298.**

†*Ulrichia illinearis* **sp. nov.** Devonian, Ontario. Contr. Mus. Pal. Univ. Mich. **10** 1953 : p. 199, figs., KESLING **376** ; *U. spinifera*, *U. fragilis*, figs., KESLING & WEISS **382.**

†*Waylandella retusa* **sp. nov.** Devonian, Eastern Europe. Geologie Beihft. **7** 1953 : p. 56, figs., KUMMEROW **433.**

†*Winchellatia deliquiata* p. 90, *W. deminuta* p. 91, **spp. nov.,** both figd. *W. teleutaea*, figs. Devonian, Michigan. Contr. Mus. Geol. Univ. Mich. **10** 1953, KESLING & TABOR **381.**

†*Xystinotus* **gen. nov.** p. 197, *X. wrightorum* **sp. nov.,** the type species, p. 198, figs. Devonian, Ontario. *X. subnodatus*, figs. Contr. Mus. Pal. Univ. Mich. **10** 1953, KESLING **376.**

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†*Aparchites speciosus* p. 17, figs. *A. chuchlensis* p. 18, figs. **spp. nov.** Devonian, Czechoslovakia. Bull. int. Acad. Prague **52** 1953, PŘIBYL **599** ; *A. devonicus*, *A.* ? *pentagonalis* **spp. nov.** p. 25, figs. Devonian, Germany. *A.* sp., figs. Geologie Beihft. **7** 1953, KUMMEROW **433.**

†*Conchoprimites tolli*, figs., HENNINGSMOEN **299.**

†*Conchoprimitia glauconitica*, figs., HENNINGSMOEN **299.**

†Conchoprimitiinae **subfam. nov.** of Leperditellidae. Norsk. geol. Tids. **31** 1953 : p. 250, figs., HENNINGSMOEN **299.**

†*Eoleperditia skjesethi* **sp. nov.** Ordovician, Norway. Norsk. geol. Tidskr. **32** 1953 : p. 52, figs., HENNINGSMOEN **298.**

†Eridoconchinae **subfam. nov.** of Leperditellidae. Norsk. geol. Tids. **31** 1953 : p. 255, HENNINGSMOEN **299.**

†*Leperditella bucculenta* **sp. nov.** Devonian, Germany. Geologie Beihft. **7** 1953 : p. 23, figs., KUMMEROW **433.**

†*Leperditia scalaris*, figs., POKORNY **595.**

†Leperditiida **ord. nov.** p. 231, POKORNY **595.**

†*Schmidtella minima*, *S.* ? *elongata* **spp. nov.** Devonian, Germany. Geologie Beihft. **7** 1953 : p. 24, figs., KUMMEROW **433.**

†*Paraparchites bucerus*, *P. symmetricus* **spp. nov.** Carboniferous, Poland, p. 11, both figd. *P.* cf. *okeni*, figs. Geologie Beihft. **7** 1953, KUMMEROW **433** ; *P. crumena* **sp. nov.** Devonian, Germany. Geologie Beihft. **7** 1953 : p. 27, figs., KUMMEROW **433.**

†*Saccelatia alata*, *S. cingulata* **spp. nov.** Devonian, Germany. Geologie Beihft. **7** 1953, p. 26, figs., KUMMEROW **433.**

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Simocephalus acutifrons **sp. nov.** Johannesburg. Ann. Mag. nat. Hist. (12) **6** 1953 : p. 924, figs., JOHNSON **343**.

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†*Amphikoilum* **gen. nov.** p. 827 Leaiidae. Type species, *A. ermakorum* **sp. nov.** p. 829, fig. *A. alienum* p. 828, *A. sibiricium* p. 829, *A. muromcevi* p. 829, *A. barsassicum* p. 829, *A. magnum* p. 829, *A. parvum*, p. 829, A. *contermium* p. 829, **spp. nov.**, all figd. Ostrogsk deposits of Kuzbas U.S.S.R. C.R. Acad. Sci. Moscow N.S. **92** 4 1953, NOVOJILOV **556**.

†*Asmussia serdobensis* **sp. nov.** Devonian, Kursk prov. U.S.S.R. p. 947, figs. *A. murchisoniana*, *A. membranacea*, *A. vulgaris*, figs. C.R. Acad. Sci. Moscow N.S. **91** 1953, NOVOJILOV **558** ; *A. kozhebekensis* **sp. nov.** Karatan, river Kozhebek, Russia. C.R. Acad. Sci. Moscow N.S. **91** 5 p. 1207, NOVOZHILOV **559**.

Brachioleaie **gen. nov.** Upper Peruvian, Australia. C.R. Acad. Sci. Moscow N.S. **85** 6 1952 : p. 1372, NOVOZHILOV **557**.

†*Cyclestherioides kazachorum* **sp. nov.** Karatan, river Kozhebek, Devonian, Russia. C.R. Acad. Sc. Moscow N.S. **91** 5 1953 : p. 1208, NOVOZHILOV **559**.

Cycloleaia **gen. nov.** Australia, Upper Peruvian. C.R. Acad. Sci. Moscow N.S. **85** 6 1952 : p. 1371, NOVOZHILOV **557**.

Cycloleaiinae **subfam. nov.** C.R. Acad. Sci. Moscow N.S. **85** 6 1952 : p. 1371, NOVOZHILOV **557**.

Dolicholaeia **gen. nov.** Carboniferous New Scotland. C.R. Acad. Sci. Moscow N.S. **85** 6 1952 : p. 1369, NOVOZHILOV **557**.

†*Estheria* (*Pseudestheria*) *simoni*, photo., DECHASEAUX **177**.

†*Estheriellites* **gen. nov.** p. 73, Isauridae. Type species : *Estheriella elliptoidea* Bock 1946. *E. elliptoideus*, figs. J. Paleont. **27** 1953, BOCK **55**.

†*Estherites middendorfii*, figs. *E. middendorfii jeholensis* p. 17, *E. m. elongata* p. 19, *E. m. sub-elongata* p. 20, *E. m. chii* p. 20, *E. m. peipiaoensis* p. 21, *E. m. intermedia* p. 22, *E. m. takechensis* p. 22, **ff. nov.** Manchuria and North Korea. Jap. J. Geol. Geogr. **23** 1953, KOBAYASHI & KUSUMI **410** ; *E. tunghuensis* p. 28, *E. saitoi* p. 29, *E. halobiformis* p. 30, *E. asanoi* p. 31, *E. proamurensis* p. 32, **spp. nov.** *E. proamurensis latus* p. 32, *E. nenkiangensis kutsangkensis* p. 33 **varr. nov.**, all figd. Mesozoic from S. Manchuria.

Jap. J. Geol. Geogr. **23** 1953, KOBAYASHI & KUSUMI **411** ; *E. cycloides* p. 434, Kurori beds near Heijo, *E. rampoensis* p. 435, Gabisan and Tonjin formations, Korea, *E. khinganensis* p. 435, gray mudstone Great Kinghan Range, *E. kawasakii* p. 436, Tonjin formation, Korea et al. *E. tanii* p. 437, Kurori beds near Heijo, *E. shimamurai* p. 437, black shale at Shindo, Kenjiho area, dark gray shale at Matienling in Jehol. **spp. nov.** all figd. *E. koreanica*, *E.* cf. *transbaikalica*, *E.* sp. aff. *reticulata*, figs. J. Fac. Sci. Univ. Tokyo (2) **7** 1951, KOBAYASHI **408.**

†*Euestheria eifelensis*, figs., *E. choprensis* **sp. nov.** Devonian, Kursk prov., U.S.S.R. C.R. Acad. Sci. Moscow N.S. **91** 1953 : p. 948, figs., NOVOJILOV **558** ; *E. tjanshanensis* **sp. nov.** Karatan, river Kozhebek. Devonian, Russia. C.R. Acad. Sci. Moscow N.S. **91** 5 1953 : p. 1207, NOVOZHILOV **559.**

Eulimnadia alineata **sp. nov.,** Arkansas. Amer. Midl. Nat. **49** 1953 : p. 210, figs., MATTOX **503** ; *E. ventricosa* p. 57, figs. 1 a–g. *E. francesae* p. 58, figs. 1 h–n. **spp. nov.** Maryland and Virginia. J. Wash. Acad. Sci. **43** 1953, MATTOX **504.**

Gonioleaie **gen. nov.** Australia Upper Permian. C.R. Acad. Sci. Moscow N.S. **85** 6 1952 : p. 1371, NOVOZHILOV **557.**

†*Howellisaura* **nom. nov.** for *Howellites* Bock not Bancroft. J. Paleont. **27** p. 759 1953, BOCK **56.**

†*Howellites princetonensis* p. 71, figs. New Jersey, *H. berryi* p. 72, figs. N. Carolina. *H. colombianus* p. 72, figs. Colombia, *H. winterpockensis* p. 73, figs. Virginia. **spp. nov.** all Triassic. J. Paleont. **27** 1953, BOCK **55.**

†*Ipsolonia* **gen. et sp. nov.** Devonian, Kursk prov., U.S.S.R. C.R. Acad. Sci. Moscow N.S. **91** 1953 : p. 947, figs., NOVOJILOV **558.**

†*Isaura olsoni* p. 69, figs., Venezuela. *I. midlothianensis* p. 70, figs., Virginia. **spp. nov.** Triassic. *I. ovata*, *I. minuta*, figs. J. Paleont. **27** 1953, BOCK **55.**

†*Isauridae* **fam. nov.** p. 65. BOCK **55.**

Japonoleaia **gen. nov.** Japan, lower Cretaceous. C.R. Acad. Sci. Moscow N.S. **85** 6 1952 : p. 1371, NOVOZHILOV **557.**

Kaltanleaia rhodendorfi **gen. nov.** and **spec. nov.** Kuzbass, river Kondoma, lower Permian. C.R. Acad. Sci. Moscow N.S. **85** 6 1952 : p. 1370, NOVOZHILOV **557.**

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Leaiinae subfam. nov. C.R. Acad. Sci. Moscow N.S. **85** 6 1952 : p. 1369 NOVOZHILOV **557.**

†Lepidittidae **fam. nov.,** p. 238, KOBAYASHI **409.**

†*Lioestheria asiatica L. pseudolallyensis*, **spp. nov.** Karatan, river Kozhebek, Devonian, Russia. C.R. Acad. Sci. Moscow N.S. **91** 5 1953 : p. 1207, NOVOZHILOV **559.**

Lioleaia permiana **gen. nov.** and **sp. nov.** Kuzbass, Permian. C.R. Acad. Sc. Moscow N.S. **85** 6 1952 : p. 1372, NOVOZHILOV **557.**

Lioleaiina **gen. nov.** Kuzbass : Tom, Babiikamen. Upper Triassic. C.R. Acad. Sci. Moscow N.S. **85** 6 1952 : p. 1372, NOVOZHILOV **557.**

Lioleaiinae **subfam. nov.** C.R. Acad. Sci. Moscow N.S. **85** 6 1952 : p. 1372, NOVOZHILOV **557.**

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†*Metaleaia* **gen. nov.** for *Praeleaia triassiana* Chernshev. Trans. paleont. Soc. Japan n.s. **8** 1952 : p. 239, fig., KOBAYASHI **409.**

†*Paleolimnadia subquadrata* **sp. nov.** Karatan, river Kozhebek, Devonian, Russia. C.R. Acad. Sci. Moscow N.S. **91** 5 1953 : p. 1208, NOVOZHILOV **559.**

†*Praeleia quadricarinata*, fig., KOBAYASHI **409.**

†*Pseudestheria tenella*, *P. ultima*, *P. cebennensis*, *P.* sp., figs., KAMARÁD **354.**

†*Pseudestheria minima*, *P. satpaevi*, *P. zolkinae* **spp. nov.** Karatau, R. Kozhebek, Devonian, U.S.S.R. C.R. Acad. Sci. Moscow N.S. **91** 5 1953 : p. 1208, NOVOZHILOV **559.**

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†*Sphaerestheria celsa*, figs., NOVOJILOV **558.**

Symmetroleaia **gen. nov.** Sokoli Gori, r. Kama, Permian. C.R. Acad. Sci. Moscow N.S. **85** 6 1952 : p. 1371, NOVOZHILOV **557.**

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